

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
 US Department of Commerce
 United States Patent and Trademark
 Office, PCT
 2011 South Clark Place Room
 CP2/5C24
 Arlington, VA 22202
 ETATS-UNIS D'AMERIQUE
 in its capacity as elected Office

Date of mailing (day/month/year) 21 August 2001 (21.08.01)	
International application No. PCT/GB00/00114	Applicant's or agent's file reference
International filing date (day/month/year) 18 January 2000 (18.01.00)	Priority date (day/month/year) 18 January 1999 (18.01.99)
Applicant DE BEER, Leon	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
 03 July 2000 (03.07.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

RECEIVED
 OCT 26 2001
 Technology Center 2600

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Olivia TEFY Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

BERESFORD, Keith, Denis, Lewis
Beresford & Co.
2-5 Warwick Court
High Holborn
London WC1R 5DJ
ROYAUME-UNI

Date of mailing (day/month/year) 08 September 2000 (08.09.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference	
International application No. PCT/GB00/00114	International filing date (day/month/year) 18 January 2000 (18.01.00)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input checked="" type="checkbox"/> the inventor	<input type="checkbox"/> the agent <input type="checkbox"/> the common representative
Name and Address DE BEER, Leon 48 Walsh Avenue Warfield Berkshire RG42 3X2 United Kingdom	State of Nationality NL	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input type="checkbox"/> the person	<input type="checkbox"/> the name	<input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence
Name and Address DE BEER, Leon 9 Heather Gardens Newbury Berkshire RG14 7RG United Kingdom	State of Nationality NL	State of Residence GB
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input checked="" type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input type="checkbox"/> the elected Offices concerned	
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer I. Britel Telephone No.: (41-22) 338.83.38
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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁷:

H04Q 7/38

A3

(11) International Publication Number:

WO 00/41486

(43) International Publication Date:

20 July 2000 (20.07.00)

(21) International Application Number: PCT/GB00/00114

(22) International Filing Date: 18 January 2000 (18.01.00)

(30) Priority Data:

9901036.5

18 January 1999 (18.01.99)

GB

(71) Applicant (for all designated States except US): PATHFINDER
TECHNICAL RESOURCES LIMITED [GB/GB]; Stanley
House, Lord Street, Douglas, Isle of Man IM1 2BF (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DE BEER, Leon [NL/GB];
48 Walsh Avenue, Warfield, Berkshire RG42 3X2 (GB).(74) Agents: BERESFORD, Keith, Denis, Lewis et al.; Beresford
& Co., 2-5 Warwick Court, High Holborn, London WC1R
5DJ (GB).(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG,
BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE,
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE,
LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT,
BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,
MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GW, ML, MR, NE, SN, TD, TG).

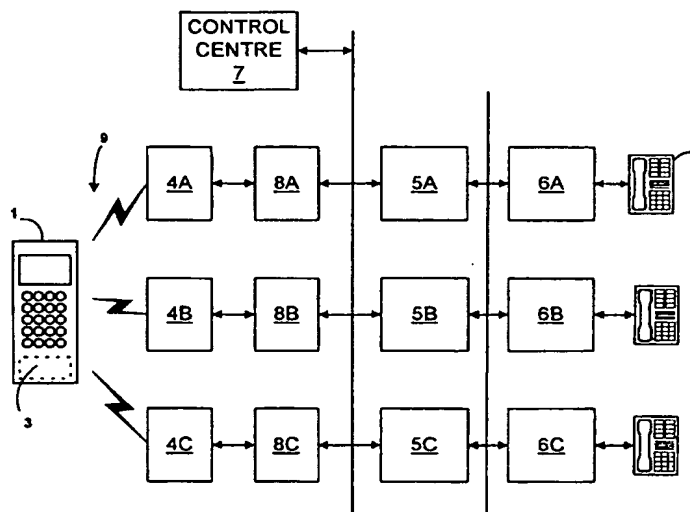
Published

With international search report.

(88) Date of publication of the international search report:

16 November 2000 (16.11.00)

(54) Title: APPARATUS AND METHOD FOR ROUTING COMMUNICATIONS



(57) Abstract

A mobile telephone (1) is provided with a look-up table (1000) enabling the mobile telephone to select preferred routes for connecting outgoing calls on the basis of predetermined codes which populate the look-up table. When operating in a cellular communications network a communications channel may thereby be selected from a plurality of available channels and ongoing transmission of an outgoing call may be routed via further networks selected in accordance with the route codes. The look-up table may be stored in a SIM card of the mobile telephone and may be updated via transmission of data from a remote control centre via a cellular network or via a docking station (1300) to which the mobile telephone is releasably connectable. When the call is routed via a packet switching network, the routing code may comprise a string of network node addresses.

FOR THE PURPOSES OF INFORMATION ONLY

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CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 00/00114

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

PACENT COOPERATION TREATY 09/869295

PCT

**NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT**

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

BERESFORD, Keith, Denis, Lewis
Beresford & Co.
2-5 Warwick Court
High Holborn
London WC1R 5DJ
ROYAUME-UNI

RECEIVED
07 APR 2000
BERESFORD & Co

Date of mailing (day/month/year) 31 March 2000 (31.03.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 5292899	
International application No. PCT/GB00/00114	International filing date (day/month/year) 18 January 2000 (18.01.00)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 18 January 1999 (18.01.99)
Applicant PATHFINDER TECHNICAL RESOURCES LIMITED et al	

1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
18 Janu 1999 (18.01.99)	9901036.5	GB	23 Marc 2000 (23.03.00)

<p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. (41-22) 740.14.35</p>	<p>Authorized officer Carlos Naranjo</p> <p>Telephone No. (41-22) 338.83.38</p>
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PATENT COOPERATION TREATY

09/869295

PCT

NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

BERESFORD, Keith, Denis, Lewis
Beresford & Co.
2-5 Warwick Court
High Holborn
London WC1R 5DJ
ROYAUME-UNI

RECEIVED

28 JUL 2000
BERESFORD & Co

Date of mailing (day/month/year) 20 July 2000 (20.07.00)		
Applicant's or agent's file reference 5292899		IMPORTANT NOTICE
International application No. PCT/GB00/00114	International filing date (day/month/year) 18 January 2000 (18.01.00)	
Priority date (day/month/year) 18 January 1999 (18.01.99)		
Applicant PATHFINDER TECHNICAL RESOURCES LIMITED et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

AU,CN,JP,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,
GH,GM,HR,HU,ID,IL,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,
OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on
20 July 2000 (20.07.00) under No. WO 00/41486

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.



For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer J. Zahra Telephone No. (41-22) 338.83.38
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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CF/5292899		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/418)	
International application No. PCT/GB00/00114	International filing date (day/month/year) 18/01/2000	Priority date (day/month/year) 18/01/1999	
International Patent Classification (IPC) or national classification and IPC H04Q7/38			
Applicant PATHFINDER TECHNICAL RESOURCES LIMITED et al.			
<p>1. This International preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 8 sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of sheets.</p>			
<p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input checked="" type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input checked="" type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application 			
Date of submission of the demand 03/07/2000		Date of completion of this report 26.06.2001	
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Authorized officer Schweitzer, J-C Telephone No. +49 89 2399 8963 	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00114

I. Basis of the report

1. With regard to the elements of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, pages:

1-50 as originally filed

Claims, No.:

1-89 as originally filed

Drawings, sheets:

1/22-22/22 as originally filed

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/GB00/00114**

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c));

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application.

☒ claims Nos. 86 to 88.

because:

☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*specify*):

☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 86 to 88 are so unclear that no meaningful opinion could be formed (*specify*):
see separate sheet

☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.

☐ no international search report has been established for the said claims Nos. .

2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

☐ the written form has not been furnished or does not comply with the standard.

☐ the computer readable form has not been furnished or does not comply with the standard.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims 1 - 85, 89

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/GB00/00114

	No:	Claims	
Inventive step (IS)	Yes:	Claims	30- 39, 70, 71, 78 - 82
	No:	Claims	1 - 29, 40- 69, 72 - 77, 83 - 85, 89
Industrial applicability (IA)	Yes:	Claims	1 - 85, 89
	No:	Claims	

2. Citations and explanations
see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/00114

The following documents (D) are referred to in this report

D1: EP-A-0 724 371 (Cable & Wireless)

D2: US-A-5 764 741 (Barak)

D3: FR-A-2 763 462 (Motorola)

D4: US-A-5 515 425 (Penzias et al.)

Concerning section III (no opinion due to lack of clarity).

Claim 86 which is directed to "instructions", **claim 87** which defines a signal comprising such instructions and **claim 88** which defines a signal comprising route selection information are not clear as they actually do not define any technical features of the matter for which protection is sought, contrary to Article 6 PCT. In addition, the category (either method/use or apparatus/system) of the claims is also not clear. Hence, no meaningful examination of these claims is at present possible.

Concerning section V.2 (reasoned statement under Article 35(2) PCT)

The cited document **D1** already discloses, in accordance with the essential features of present **claim 1**, a method of operating a mobile telephone in a cellular communications network, wherein the mobile telephone (handset) is provided with a look-up table enabling the mobile telephone to select preferred routes for connecting outgoing calls on the basis of predetermined, programmed "user preferences" and/or tariff information contained in the look-up table, see the "Outgoing Call Mode" described at pages 3 and 4. Thus, the method of **D1** permits to establish an outgoing call by selecting a channel of a given network (service provider) from a plurality of available communications channels based at least in part on the call destination information input by the user and preferences/information stored in the look-up table, cf. also claims 4 and 6 in **D1**.

Said prior art method differs from the subject-matter of claim 1 only in that the latter defines the use of "*preferred route codes*", which are not explicitly to be found in citation **D1**. However, as mentioned above, **D1** makes use of "user preferences" and "tariff information" which can actually be regarded as such "route codes", as they are also used to select a preferred communications channel.

As a consequence, no real difference that could justify an inventive step can presently be seen in claim 1, which hence lacks an inventive step of its subject-matter

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/00114

in accordance with Article 33(3) PCT.

A similar reasoning equally applies vis-a-vis the cited reference **D2**, which also discloses a least cost routing method to be used e.g. in a cellular telephone, see col.3, lines 12 - 13, and wherein the "best" service provider and an "optimum" route are selected for each outgoing telephone call based on information stored in a database, see col.3, line 65 to col.4, line 65 and col.6, lines 15 to 42. Claim 1, therefore, lacks the required inventive step, Article 33(3) PCT, over the disclosure of **D2**.

Independent **claim 48** is drafted in structural terms rather than in terms of method steps and corresponds in essence to claim 1; hence the arguments concerning lack of inventive step set out above apply mutatis mutandis equally to said claim 48.

Similar considerations also apply to independent **claim 83** which relates to a portable storage medium for storing look-up tables containing "*preferred route codes*" of the type discussed above, cf. e.g. **D1**, page 4, lines 8 and 9, and to independent **claim 89**, which relates to a method of routing a telephone call by adding a prefix code to a user generated call information in order to define a preferred route, cf. in particular claim 1 in **D2**.

Thus, independent claims 48, 83 and 89 do not meet the requirements of Article 33(3) PCT.

The dependent **claims 2 to 29, 40 to 47, 49 to 69, 72 to 77, 84 and 85** appear to add nothing of inventive significance to claims 1 and 48, respectively, as the additional features introduced by said dependent claims refer only to minor implementing details which are known or directly derivable from the cited prior art references or fall within the general knowledge or technical competence of a person skilled in the art.

In particular, the features set out in dependent method claims 2 to 9 and corresponding apparatus claims 49 to 51 concerning the "best" route/channel selection are already to be found (at least implicitly) in the cited **D1/D2**, see passages noted above.

The features of claims 10 to 12 and 52 to 54 concerning the network registration procedure obviously fall within the normal technical competence of a skilled person and are in addition to be taken from citation **D3**, cf. page 11, line 15 to page 15, line 18.

The features of claims 13 to 22, 55 to 63 and 84 concerning the storage of the look-up tables are known from **D1**, wherein a portable medium, such as SIM cards, are used.

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/00114

The features of claims 23 and 64 concerning the use of default routing data are already disclosed in the cited document D4, cf. col.4, lines 14 to 19. >

The features of claims 24 to 27 and 65 to 67 concerning the transmission of updating information to the mobile telephone e.g. by means of SMS messages, is taught by D1 and D2.

The features set out in the remaining dependent claims appear to be merely generally known features each acting in a normal and unsurprising way, and not combining to yield any unexpected or surprising advantageous result or to be common design measures within the range of options envisaged by a skilled person, e.g. the use of the WAP protocol for transferring updating information to the mobile telephone as defined in claims 28, 29 and 68, 69, the structure of the data stored in the look-up tables as defined in claims 40 to 47 and 72 to 77 or the provision of a computer program as per claim 85.

Independent **claim 78** which defines a docking station permitting to transfer updating information to a mobile telephone connected thereto is neither taught, nor rendered obvious, alone or in combination, by any of the prior art documents cited in the International Search Report. Claim 78 is therefore novel and considered to involve the required inventive step, Articles 33(2) and (3) PCT.

Dependent **claims 79 to 82** relate to further implementing details of the docking station defined by claim 78 to which they refer and are thus equally novel, inventive.

Similarly, the features set out in **claims 30 to 39, 70 and 71** also concerning the provision of a docking station are neither known from, nor rendered obvious by, the available prior art. The subject-matter of said claims 30 to 39, 70 and 71 is thus novel, inventive.

All claims are industrially applicable, Article 33(4) PCT.

Concerning section VII (form and contents).

The independent claims are not drafted in the proper two-part "characterised" form recommended by Rule 6.3.(b),(i),(ii) PCT, having a preamble that correctly reflects the nearest prior art represented by the above noted D1.

The requirements of Rule 5.1.(a),(ii) PCT are not met, as the relevant prior art

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/00114

document **D1** has not been acknowledged by reference and discussed in the introductory part of the description.

The claims do not include reference signs in parentheses where features shown in the drawings are referred to, Rule 6.2.(b) PCT.

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 00/00114	International filing date (day/month/year) 18/01/2000	(Earliest) Priority Date (day/month/year) 18/01/1999
Applicant PATHFINDER TECHNICAL RESOURCES LIMITED et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☒ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.
CT/GB 00/00114

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-9,13-22,24-27,44,45,48-51,55-63,65-67,75,76,83-88

Control center collating information in respect of services provided by a plurality of service providers in facilitating the making of the call to the call destination

2. Claims: 10-12,52-54

Mobile completing a registration procedure to all available channels to facilitate access to preferred channel

3. Claims: 23,64

Directing the outgoing call through a default route when accessing the look-up table fails to locate data defining a preferred route code

4. Claims: 28,29,68,69

Wireless Application Protocol to transferring to the mobile station Web pages containing updating information for the look-up table

5. Claims: 30-39, 70,71,78-82

Docking station to trasmitting to the mobile station updating information for the look-up table

6. Claims: 40-43, 47,72-74,89

Preferred route code extracted from the look-up table comprises network address information defining at least one node which is to be included in the selected route

7. Claims: 46,77

Look-up tables with different route codes for telephone coomunications of data of different types.